

UNITED STATE DEPARTMENT OF COMMERCE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.	
09/432,334	11/02/99	GUIDOTTI		R	98-2069	
		TM22/0910	. Т.	EXAMINER		
023413 CANTOR COLBURN, LLP		18/22/0910		MAPLES, J		
55 GRIFFIN R	OAD SOUTH			ART UNIT	PAPER NUMBER	
BLOOMFIELD C	T 06002			1745	((
				DATE MAILED:	09/10/01	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

		Applicati n N .		Applicant(s)	
	0.00	09/432,334		GUIDOTTI ET AL.	
•	Offic Action Summary	Examin r		Art Unit	
		John S. Maples		1745	
Period f	The MAILING DATE of this communication app	ears on the cover	sheet with the c	orresponaence address	
A SH THE I - Exter after - If the - If NO - Failu - Any r earne	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Inside of the provided	36(e). In no event, howe within the statutory min will apply end will expire s	wer, may e reply be tim imum of thirty (30) days SIX (6) MONTHS from become ABANDONE	ety filed will be considered timely. the mailing date of this communication. 0 (35 U.S.C. & 133).	
Status	Responsive to communication(s) filed on 09	luly 2001			
1)⊠		is action is non-fi	nol .	•	
2a)□	· —	•		accountion as to the ments is	
3)□	Since this application is in condition for allows closed in accordance with the practice under	Ex parte Quayle,	1935 C.D. 11, 4	53 O.G. 213.	
Dispositi	on of Claims				
	Claim(s) 21-28 ie/are pending in the application	n.			
. /—	4a) Of the above claim(s) is/are withdraw	wn from consider	ation.		
_	Claim(s) is/are allowed.				
6)⊠	Claim(s) 21-28 ie/are rejected.				
7)	Claim(s) is/are objected to.				
8)[Claim(s) are subject to restriction and/o	r election require	ment.		
Applicati	on Papers				
9) 🗌 🤈	The specification is objected to by the Examine	r.			
10)	The drawing(s) filed on is/are: a)☐ accep	oted or b) Object	ed to by the Exar	miner.	
	Applicant may not request that any objection to the	e drawing(s) be hel	d in abeyance. Se	ee 37 CFR 1.85(a).	
11) 🔲 .	The proposed drawing correction filed on	_is: a)∐ approve	ed b) 🗌 disappro	ved by the Examiner.	
	If approved, corrected drawings are required in re-	oly to this Office act	tion.		
12) 🔲	The oath or declaration is objected to by the Ex	aminer.			
Priority (ınder 35 U.S.C. §§ 119 and 120				
13)[Acknowledgment is made of a claim for foreign	priority under 35	U.S.C. § 119(a)-(d) or (f).	
a)	☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority document	s have been rece	ived.		
•	2. Certified copies of the priority document	s have been rece	ived in Application	on No	
* 0	Copies of the certified copies of the prior application from the International Buse the attached detailed Office action for a list.	reau (PCT Rule 1	7.2(a)).		
	Acknowledgment is made of a claim for domesti				n).
) ☐ The translation of the foreign language pro				,
	Acknowledgment is made of a claim for domest				
Attachmen	t(s)				
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _		Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)	

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 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

 34-13, 41-44
- Claims 21,-27 are rejected under 35 USC 102(e) as being anticipated by Muffoletto et al. (Muffoletto)

Reference is made to claims 1 and 7 of the patent to Muffoletto. It is inherent that with the thickness of the active material being 0.001 inch (25 microns) that the particle size would be within the microstructured size range as claimed in claim 27.

3. Claims 21 27 are rejected under 35 USC 102(e) as being anticipated by Visco et al. (Visco)

See column 4, lines 45-63 of Visco along with column 5, lines 30-55. As stated for the Muffoletto patent above, the particle size of claim 27 is inherent in view of the thickness of the active layer in Visco.

4. Claims 24 and 24-28 are rejected under 35 USC 102(b) as being anticipated by Gay et al.

See Example 1 of Gay and in particular column 5, lines 54-56 for the particle size of the iron sulfide.

Claime 21 and 24/26 are rejected under 35 USC 102(b) as being anticipated by Askew et
 al. (Askew)

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Reference is made to column 2, line 25 through column 3, line 4 of the patent to Askew.

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

 Claims 21 and 28 are rejected under 35 USC 103 as being obvious over Muffoletto or Visco each taken in view of Gay.

Muffoletto and Visco do not specifically teach a nanostructured iron sulfide. As set forth previously in this action, Gay sets forth a nanostructured iron sulfide in Example 1 of this patent. To utilize in the teachings of either Muffoletto or Visco the 15 nanometer particle size of Gay would have been obvious so that the active material would have been packed more tightly and would have produced a greater power output.

8. The US patent applications cited on pages 12 and 15 of the present application should be updated to show their most recent status.

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 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Though not prior art, Amatucci shows an iron sulfide layer of interest.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John S. Maples whose telephone number is 703-308-1795. The examiner can normally be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gabrielle Brouillette can be reached on 703-308-0756. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

John S. Maples Primary Examiner Art Unit 1745

JSM September 6, 2001